



**SICE NCCP - NAVIGATION AIDS CENTRALIZED CONTROL PANEL
EQUIPPED WITH INTELLIGENT SUPERVISOR SYSTEM**

STANDARD INDUSTRIAL VERSION FOR SAFE AREA (EXAMPLE)



SIMPLIFIED TECHNICAL DESCRIPTION

This Navaid Centralized Control Panel has the aim of managing the working of the whole pieces of equipment which are part of the navigation aid system, included aeronautical obstruction lights & helideck lighting (if installed). Normally it is powered by mains input at 230Vac. The Navaid Centralized Control Panel is complete with control circuits for the driven pieces of equipment (coders & current relays) and SICE intelligent supervisor system. This supervisor system is complete with CPU module, Digital Input modules and Digital Output modules. It receives, as inputs, the status and the eventual alarms of the whole equipment that is part of the complete system. The supervisor system elaborates the received data and proceeds automatically with the activation/deactivation of the pieces of equipment and the signalling of eventual alarm or failure situations. Furthermore the system is equipped with local display panel, complete with graphic display & four push buttons. This display, made by SICE, is very useful in all cases where several sub-systems have to be integrated, providing to the user a complete check for the overall installed system. In particular, through some pages on this graphic display, the user can monitor all the configured statuses and alarms of the several installed equipment, one by one. At the same time, by using the frontal push buttons, the user can give the expected commands. Normally this panel is equipped with a 50% redundant battery charger complete with two separated rectifier modules, of equal power, that work in parallel. If one of these modules fails, the supervisor system sends this failure to the remote control system and the navaid system remains correctly working, but the recharge time is doubled. Other selectors, for Manual/Automatic/Remote working selection can be included and installed in the front door of the Panel, in compliance with Customer requisition. Predisposed for remote controls connections via MODBUS RS485 two wires and/or via hard wired



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ATEX CERTIFIED EXPLOSION PROOF VERSION (EXAMPLES)



Control Panel suitable for floor installation, with mechanical support in AISI 316L stainless steel and prepared for cable inlet from top.

Typical managing capacity:

- ✓ Q.ty 2 Main fog horns (as for IALA)
- ✓ Q.ty 4 Main white lanterns (as for IALA)
- ✓ Q.ty 2 MIOL (Medium Intensity Obstruction Lights) (as for ICAO)
- ✓ Q.ty 4 LIOL (Low Intensity Obstruction Lights) (as for ICAO)
- ✓ Q.ty 1 Visibility Meter (Fog Detector)
- ✓ Q.ty 1 General Photocell system
- ✓ 50% Redundant battery charger (1200W total output)
- ✓ Battery breaker
- ✓ Dimensions: 832mm (W) x 2452mm (H) x 800mm (D)
- ✓ Weight: 374kg

Control Panel suitable for floor installation, complete with mechanical support in AISI 316L stainless steel and prepared for the cable inlet from bottom, already installed on platform.

Typical managing capacity:

- ✓ Q.ty 2 Main fog horn (as for IALA)
- ✓ Q.ty 4 Main white lanterns (as for IALA)
- ✓ Q.ty 2 LIOL (Low Intensity Obstruction Lights) (as for ICAO)
- ✓ Q.ty 1 Visibility Meter (Fog Detector)
- ✓ Q.ty 1 General Photocell system
- ✓ 50% Redundant battery charger (1200W total output)
- ✓ Battery breaker
- ✓ Dimensions: 1000mm (W) x 1847mm (H) x 700mm (D)
- ✓ Weight: 330kg

Examples of Navigation Aids Centralized Control Panels manufactured by SICE using ATEX and IECEx Certified enclosures and suitable for installation in classified areas of Zone 1 & 2. The Navaid Panel is manufactured according to the Customer specifications and ATEX Directive. It can be manufactured in different dimensions, using different enclosure types and can be supplied suitable for floor installation, complete with suitable mechanical support (pictures example), or for wall installation complete with suitable brackets. The panel can contain the same electronic devices and components that are placed inside standard industrial cabinet type, so the working philosophy of this version is equal to the standard industrial version. Only the battery charger power must be reduced in compliance with maximum power dissipation of the used enclosure, usually the battery charger power is approx 1500W maximum. The standard type of enclosure is made in copper free aluminium, painted internally (anticondensation) and externally, in compliance with Manufacturer procedure or Customer Specification, suitable for off-shore use. The external colour can be changed in compliance with Customer needs.

Document can be subjected to modifications, without prior notice